

Bmk. No. A-33

Assistant Chief Engineer, Hopper Dredge, WJ-4742-13

#### MAJOR DUTIES

Serves as Assistant Chief Engineer on a self-propelled, sea-going diesel powered hopper dredge, engaged in the maintenance and improvement of harbors and channels leading from these harbors. Acts for the Chief Engineer during that individual's regularly scheduled days off, as well as periods of annual and sick leave, and is on call 24 hours a day at such times. Incumbent is expected to perform all duties pertinent to that license when serving in that capacity, and in addition performs the duties listed below:

1. Stands a regular watch and is in charge of engine-room activities, checking operation, maintenance and repair of all equipment and machinery such as engines, generators, pumps, motors, and auxiliary machinery (e.g., refrigerating, plumbing and heating systems) for efficient and continuous operation of all such equipment and the production of power during assigned shift. Makes regular inspection of such plant, and directs repairs, personally performing the most difficult jobs.
2. Plans, supervises and directs the engine-room crew in the performance of their various duties, and assured compliance with instructions issued by the Chief Engineer. Plans, lays out and directs daily operations, issuing verbal or written orders to subordinates as appropriate. Assists in scheduling individual shifts. Trains or directs the training of subordinates. Maintains discipline of crew. Is responsible for becoming completely familiar with all safety requirements and procedures, and assures the safe performance of subordinates' duties and responsibilities. Provides equal opportunity for all employees supervised, regardless of race, color, religion, sex, handicap, age or national origin; and affords minorities and women full consideration in employment, and personnel policies and practices.
3. Is accountable for assigned tools and machinery. Assists in recommending repairs and replacements required to maintain and service the dredge in first class condition for the ensuing year. Inspects completed repairs to ascertain that work is accomplished in a satisfactory manner, and that machinery and equipment are in good operating condition.
4. Responsible for the overall charge of all engine department operations in the absence of the Chief of Engineer. When bridge controls are not functioning, directs manipulation of manual controls by subordinates according to signals from bridge.

Performs other duties as assigned

#### SKILLS AND KNOWLEDGES

Must possess license as Chief Engineer, Diesel, any horsepower. In addition to the skills and knowledges implicit in the attainment of a Coast Guard License, must possess the ability to understand the principles of operation of an automated engine room monitoring system. Must understand the marine machinery and the basic welding skills. Is required to be able to develop knowledge of regulations for personnel administration and procurement of supplies.

#### RESPONSIBILITIES

Works under the general supervision of the Chief Engineer, who makes work assignments on a functional basis in addition to specific job assignments. Repairs are subject only to general supervision from the Chief Engineer. Completed work is spot checked by the Chief Engineer who makes periodic inspections to observe the operation, condition, cleanliness and orderliness of equipment. Overall performance is evaluated in terms of performance appraisal standards established by the supervisor.

#### WORKING CONDITIONS

Incumbent is exposed to abnormal heat, dirty and greasy equipment, and moving machinery. Is subject to burn by hot pipes or escaping steam. There is the constant hazard of boat traffic and, in the event of a collision, there is the danger of being thrown against moving equipment, and the danger of drowning if the vessel takes in water. Incumbent works regularly in areas where noise exceeds 80 decibels. Incumbent is exposed to the effects of paints, acids and solvents.

#### PHYSICAL DEMANDS

Incumbent is required to exert moderate to heavy physical effort in handling engine room equipment. Incumbent must possess color perception in order to perform troubleshooting and repair work on the full range of equipment.